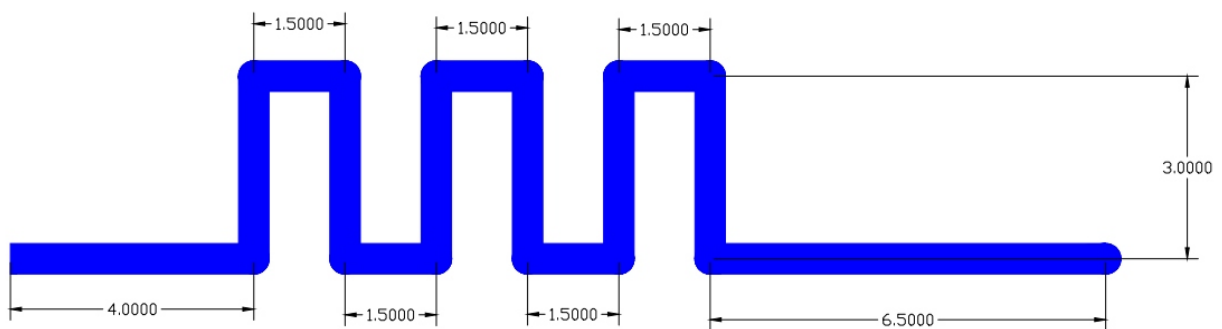


# Antenna Specification

## Specifications Summary

ITEM	SPEC.	
Model Name	IBM 2.4 GHz	
Center Frequency	2402 MHz	2.24 dBi
	2441 MHz	2.07dBi
	2480 MHz	1.45 dBi
MAX. GAIN	2.24 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 $\Omega$	
Antenna Length	1.8cm	

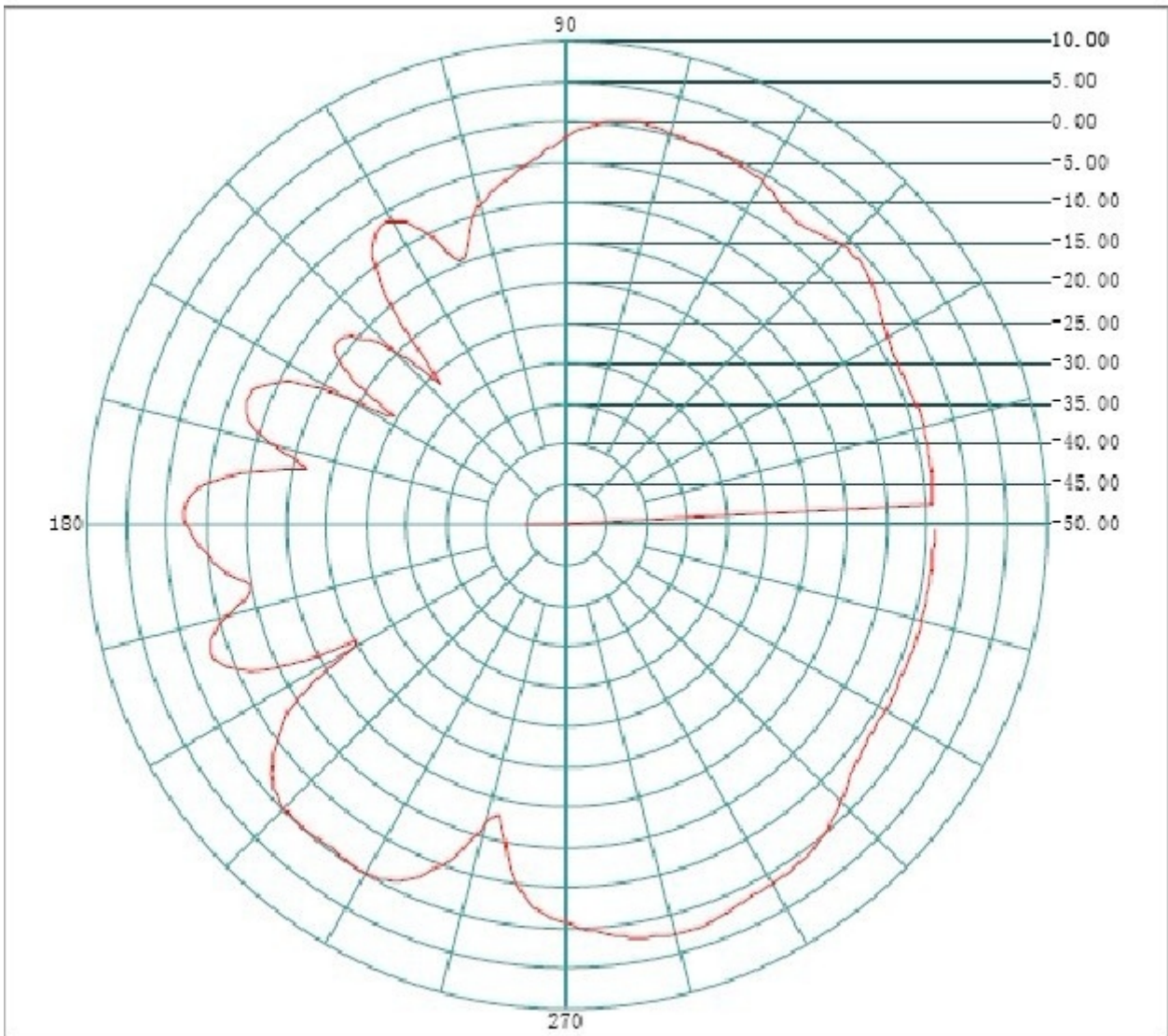
## Antenna Photo & Length (mm)



<b>Test Address</b>	16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan
<b>Test Date</b>	2009-04-14
<b>Test Instrument</b>	vector network analyzer - R&S ZVB20

# 1. Main antenna : 2402 MHz

## 1.1 Horizontal



Frequency(MHZ): **2402**

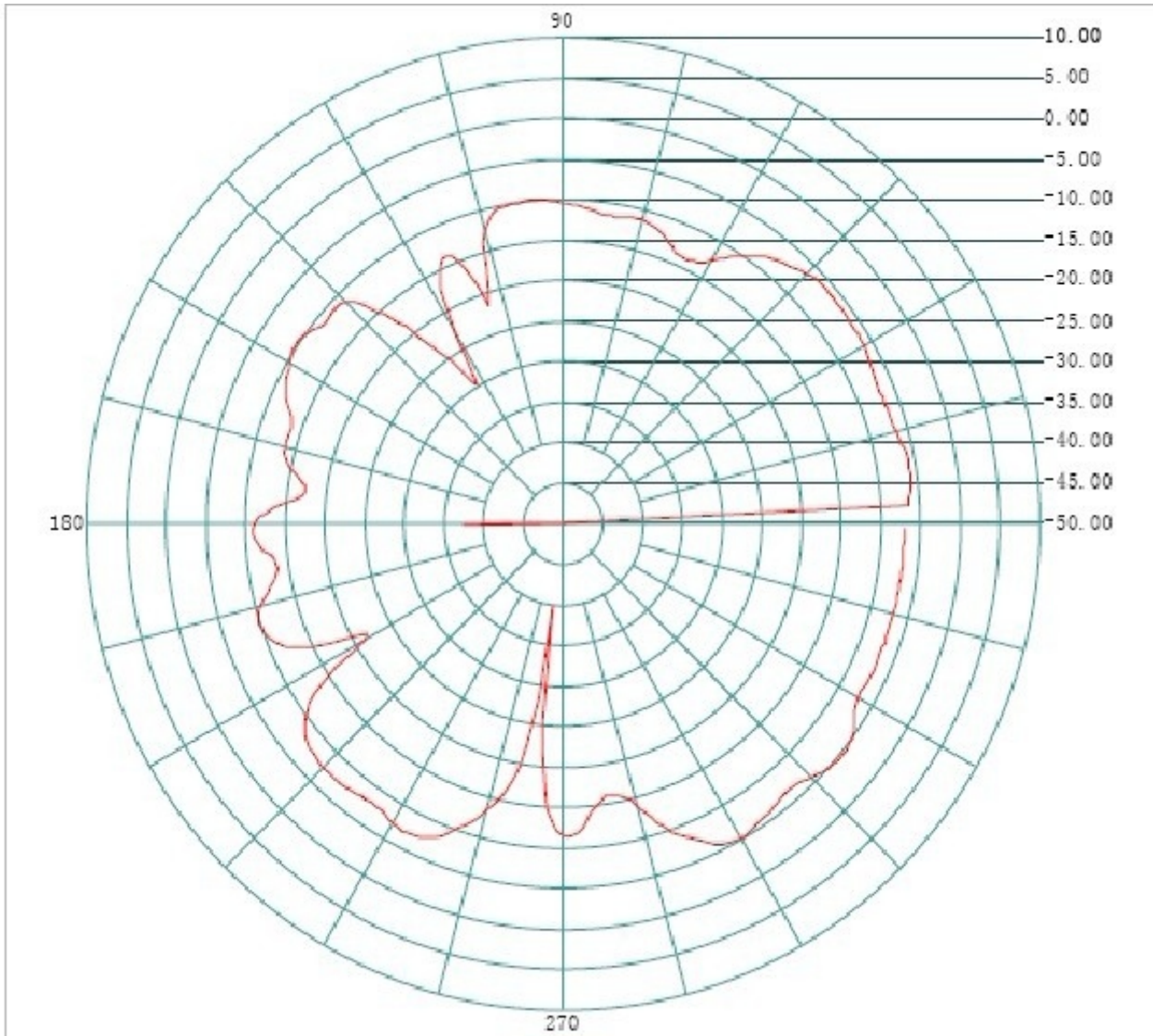
Antenna Polarity: **Horizontal**

Maximum Gain(dBi): **2.24**

Average Gain(dBi) **-2.48**

Minimum Gain(dBi): **-55.18**

## 1.2 Vertical



Frequency(MHZ): **2402**

Antenna Polarity: **Vertical**

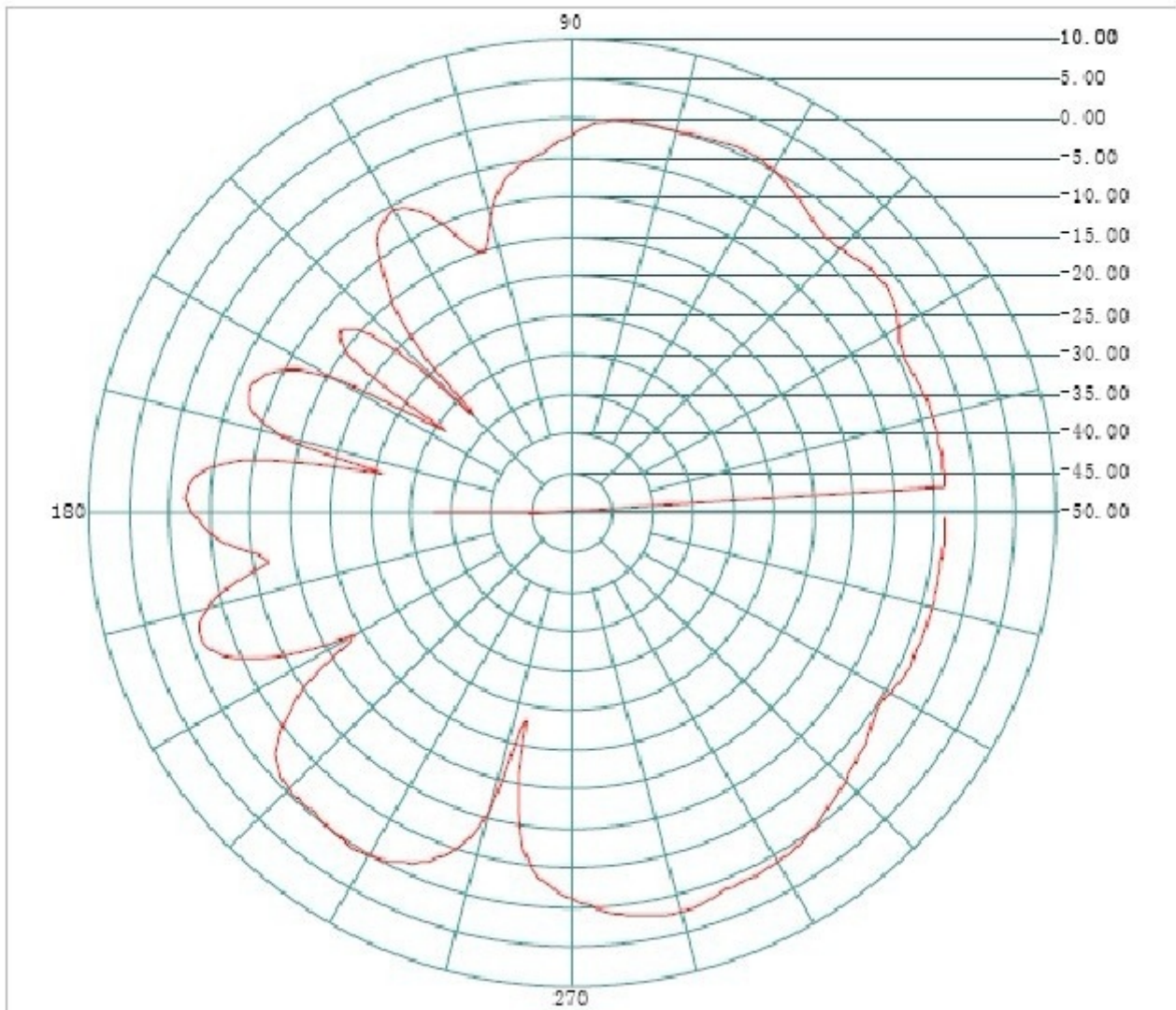
Maximum Gain(dBi): **-4.51**

AverageGain(dBi) : **-8.98**

Minimum Gain(dBi): **-62.3**

## 2. Main antenna : 2441 MHz

### 2.1 Horizontal



Frequency(MHZ): **2441**

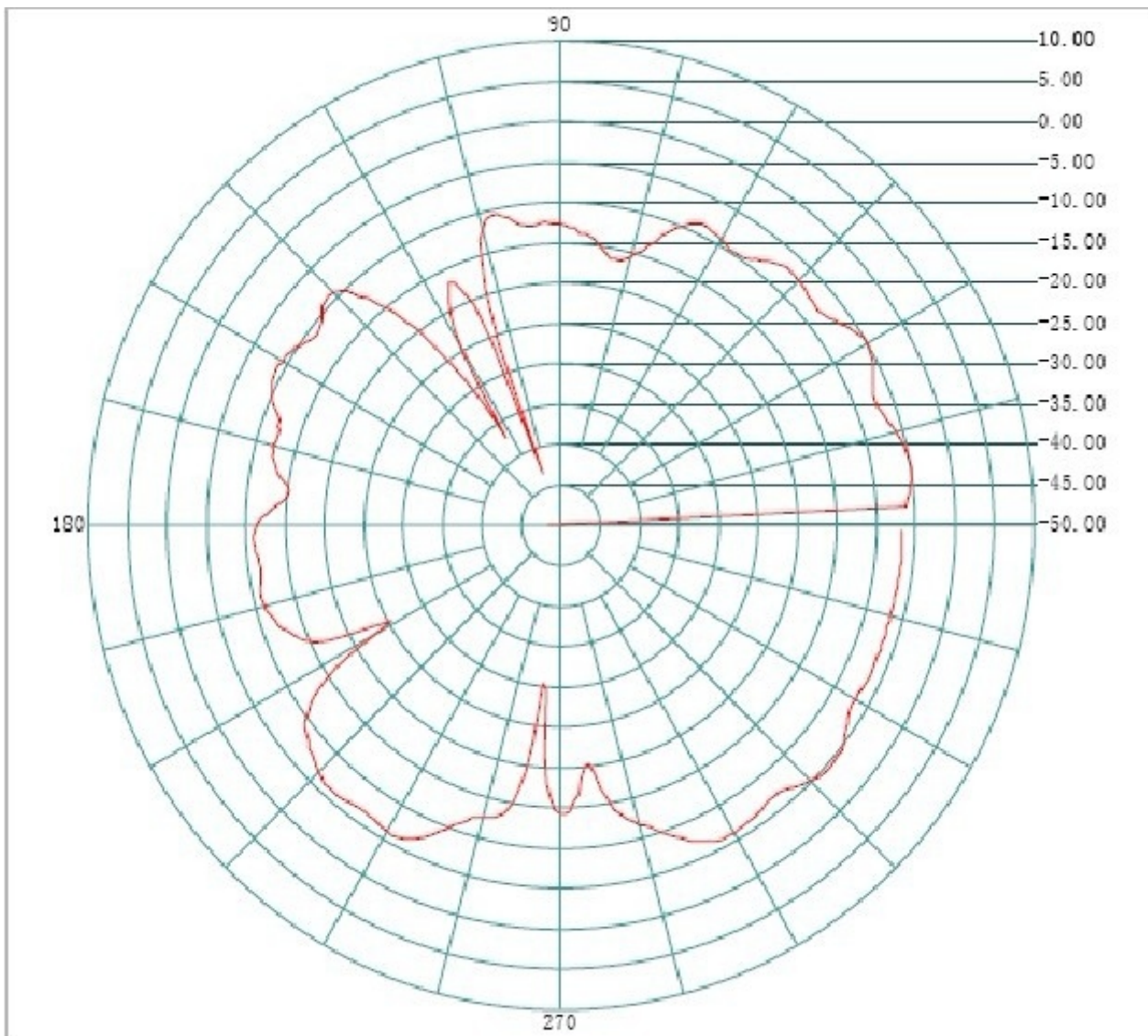
Antenna Polarity: **Horizo**

Maximum Gain(dBi): **2.07**

Average Gain(dBi) **-2.54**

Minimum Gain(dBi): **-66.98**

## 2.2 Vertical



Frequency(MHZ): **2441**

Antenna Polarity: **Vertical**

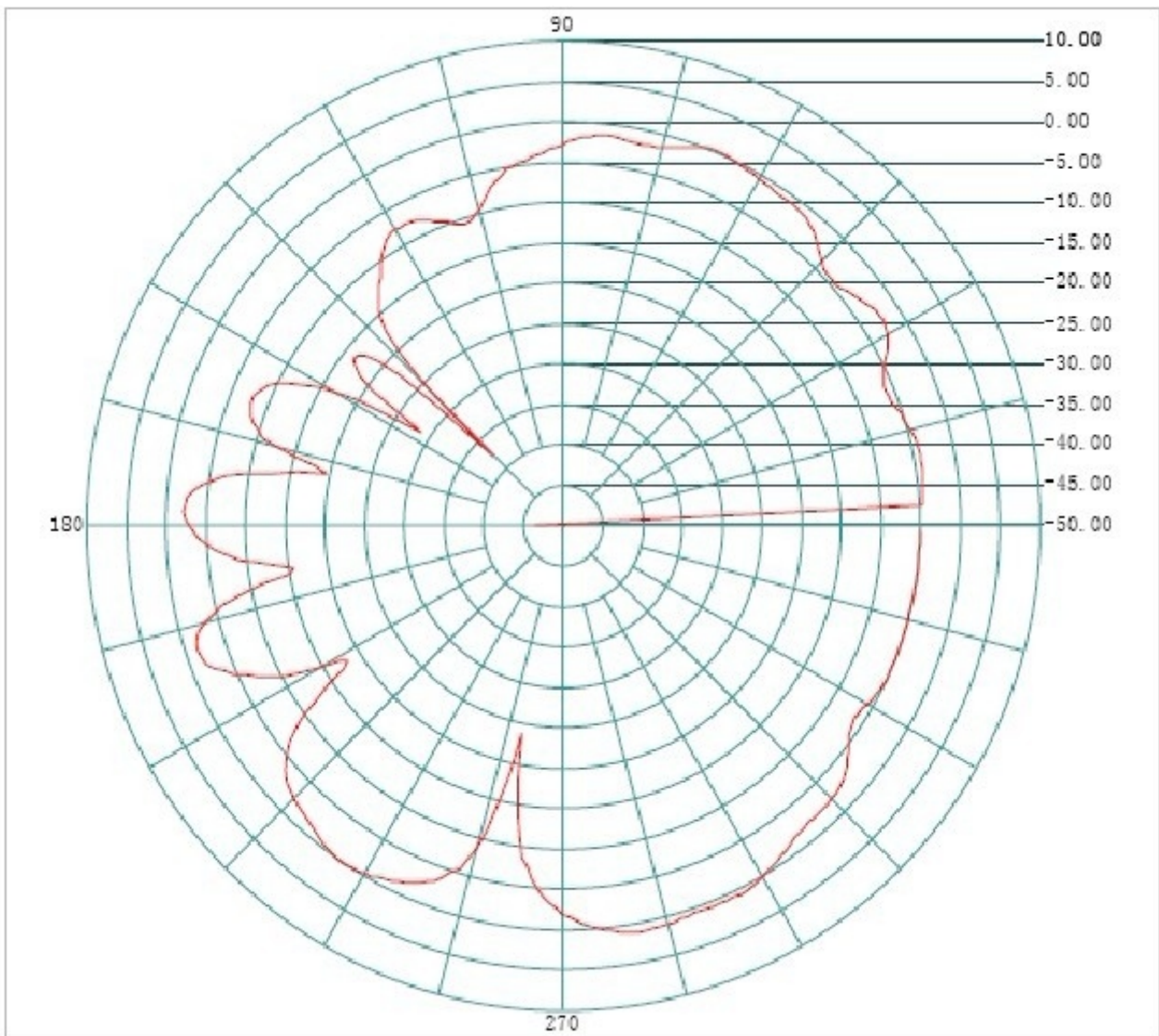
Maximum Gain(dBi): **-4.29**

AverageGain(dBi) : **-8.81**

Minimum Gain(dBi): **-51.4**

## 2. Main antenna : 2480 MHz

### 2.1 Horizontal



Frequency(MHZ): **2480**

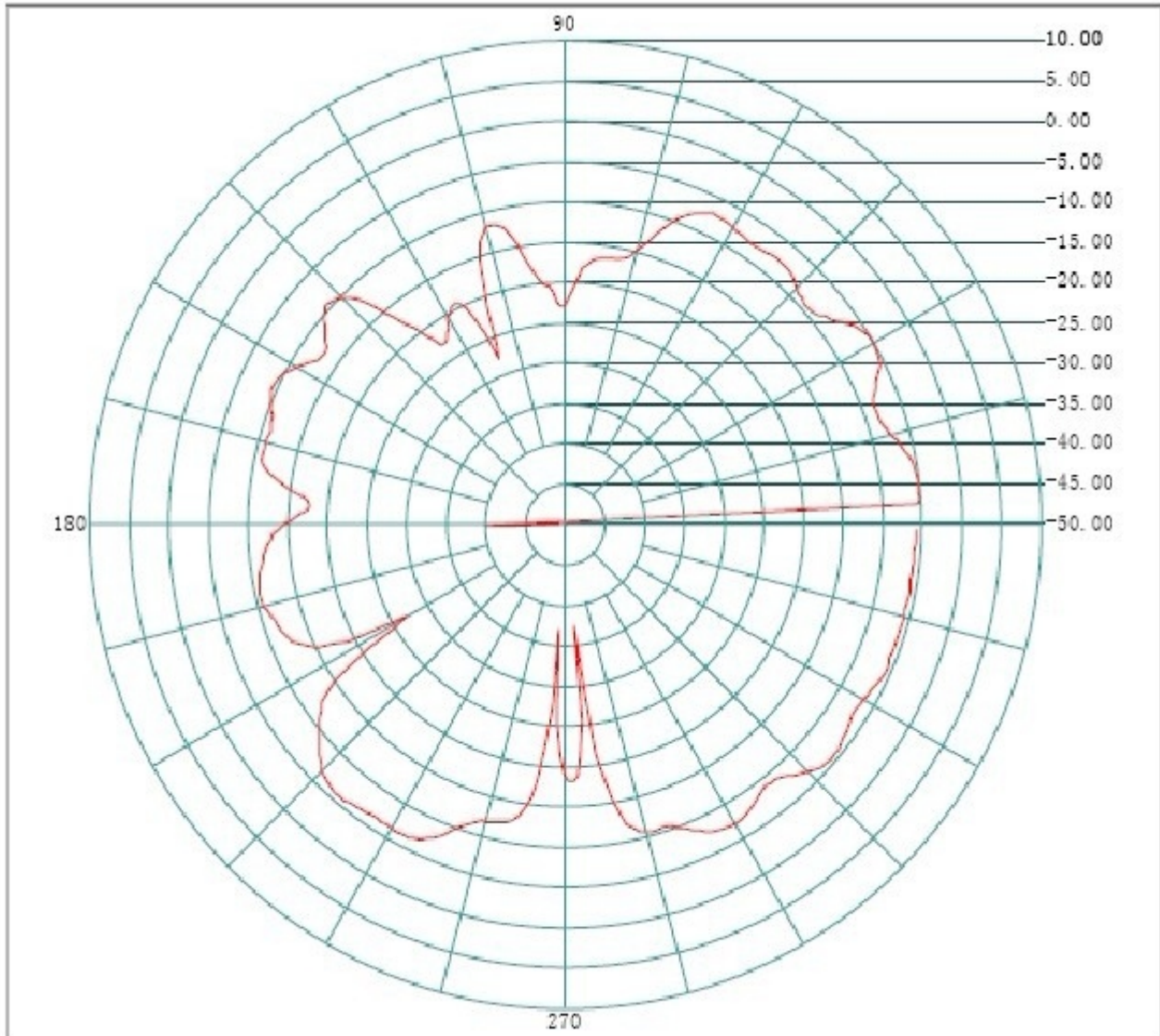
Antenna Polarity: **Horizontal**

Maximum Gain(dBi): **1.45**

AverageG ain(dBi) : **-3.34**

Minimum Gain(dBi): **-53.4**

## 2.2 Vertical



Frequency(MHZ): **2480**

Antenna Polarity: **Vertical**

Maximum Gain(dBi): **-4.95**

AverageGain(dBi) : **-9.06**

Minimum Gain(dBi): **-60.00**